|  | <br>laims |  |
|--|-----------|--|
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| Αn | nli | cati | on  | No   |
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10/031,698

Examiner

SHIOTA ET AL

Applicant(s)

Art Unit

Shengjun Wang

1617

| √ | Rejected |
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(Through numeral) Cancelled

Restricted

| N | Non-Elected  |
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| 1 | Interference |

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| Cla                    | aim     |            |          |          |              | Dat      |          |          |                 |          | 1   | Cla      | aim      | Τ        |          |      |          | Dat      | <u></u>  |          |              |   |
|------------------------|---------|------------|----------|----------|--------------|----------|----------|----------|-----------------|----------|-----|----------|----------|----------|----------|------|----------|----------|----------|----------|--------------|---|
|                        | _       |            | Γ        | Τ        | Τ            | Ī        | Ī        |          | Τ               | Г        | 1   |          |          |          | -        | Ι    | Τ        | T        | Ť        |          | Т            | T |
| Final                  | Origina |            |          |          |              |          |          |          |                 |          |     | Final    | Original |          |          |      |          |          |          |          |              |   |
|                        | 1       | $\vdash$   |          |          | 1            |          |          |          |                 | $\vdash$ |     |          | 51       |          |          |      | 1        | ╁        | t        | T        | <del> </del> | t |
|                        | 2       |            |          |          |              | 1        | 1        |          |                 | -        |     |          | 52       | П        | _        |      |          | +-       |          |          | <b>-</b>     | t |
|                        | 3       | N          |          | П        |              | T        |          |          |                 |          |     |          | 53       |          |          |      |          | Г        |          |          |              | t |
|                        | 4       | N          |          |          |              |          |          |          |                 |          |     |          | 54       |          |          |      |          |          | Γ        | Ī        |              | Ť |
|                        | 5       | <b>/</b> ~ |          |          |              |          |          |          |                 | Ι.       | ]   |          | 55       |          |          |      |          | П        |          |          |              | 1 |
|                        | 6       | ~          | _        |          |              |          |          |          |                 |          |     |          | 56       |          |          |      |          |          |          |          |              | Ť |
|                        | 7       | =          |          |          |              |          |          |          |                 |          |     |          | 57       |          |          |      |          |          |          |          |              | 1 |
|                        | 8       |            |          |          |              |          |          |          |                 |          |     |          | 58       |          |          |      |          |          |          |          |              | Ī |
| L                      | 9       |            |          |          |              |          |          |          | L               |          |     |          | 59       |          |          |      |          |          |          |          |              | Ī |
|                        | 10      |            |          |          | _            |          |          |          | L               |          | ] , |          | 60       |          |          |      |          |          |          |          |              | I |
|                        | 11      | =          | <u> </u> |          | L            |          | <u> </u> |          |                 |          | ]   |          | 61       |          |          |      |          |          |          |          |              | I |
|                        | 12      | =          |          |          |              |          |          |          |                 |          |     |          | 62       | Ш        |          |      |          |          |          |          |              | I |
|                        | 13      | =          |          |          |              | L        |          | L        |                 |          |     |          | 63       |          |          |      |          |          |          |          |              | I |
|                        | 14      |            |          |          |              |          |          | L        |                 | L        |     |          | 64       |          |          |      |          |          |          |          |              | I |
|                        | 15      |            |          | L        |              |          | Ŀ        |          |                 |          |     |          | 65       |          |          |      |          |          |          |          |              | I |
| <u></u>                | 16      |            |          |          | _            |          |          | L        |                 |          |     |          | 66       |          |          |      | <u> </u> |          |          |          |              | I |
|                        | 17      |            |          |          |              |          | L        |          |                 | L        |     |          | 67       |          |          |      |          |          |          |          |              | I |
|                        | 18      |            |          |          |              |          |          | L        |                 | _        |     |          | 68       |          |          |      |          |          |          |          |              | I |
|                        | 19      |            |          |          |              |          |          |          |                 |          |     |          | 69       |          |          |      |          | L        |          |          |              | I |
|                        | 20      | L          |          |          | <u> </u>     |          |          | <u></u>  |                 |          |     |          | 70       |          |          |      |          |          |          |          |              | I |
|                        | 21      |            |          |          | L            | <u> </u> |          | L_       | <u> </u>        |          |     |          | 71       |          |          |      |          |          |          |          |              | I |
| <u></u>                | 22      |            |          |          |              |          |          |          | L               |          |     |          | 72       |          |          |      |          |          |          |          |              | I |
|                        | 23      | Ш          |          |          | L            |          | <u> </u> |          |                 | L        |     |          | 73       |          |          |      |          |          |          |          |              | I |
|                        | 24      | Ш          |          | L        | ļ            |          | <u> </u> |          |                 | <u> </u> | 1 1 |          | 74       |          |          |      |          |          |          |          | L            | l |
|                        | 25      |            |          |          | <u> </u>     |          | <u> </u> |          |                 | <u> </u> |     |          | 75       |          |          |      |          |          | L        |          | L            | l |
|                        | 26      |            |          |          |              | ļ        | _        |          |                 |          |     |          | 76       |          |          |      |          | <u>L</u> |          | L        | _            | l |
|                        | 27      | Ш          |          |          |              | L.,      |          |          |                 |          |     |          | 77       |          |          |      |          |          |          |          |              | I |
|                        | 28      |            |          |          | $oxed{oxed}$ | L        |          |          |                 |          |     |          | 78       |          |          |      |          |          |          | <u> </u> |              | I |
|                        | 29      |            |          | Ļ        | _            | <u></u>  | L.       | _        | L               |          |     |          | 79       |          |          |      |          |          | L        | ·        | L            | L |
|                        | 30      |            |          |          | $oxed{}$     |          |          | L_       |                 |          |     |          | 80       |          |          | ٠. " |          | L        |          |          |              | l |
| <u> </u>               | 31      | Щ          |          |          | L.           | _        |          | _        | _               |          |     |          | 81       | $\Box$   |          |      |          | <u>_</u> | <u> </u> |          |              | l |
|                        | 32      |            |          |          | ╙            | _        |          | _        |                 |          |     |          | 82       | $\Box$   |          |      |          | L        |          |          | L            | l |
|                        | 33      |            |          |          | ļ            | _        |          | <u> </u> | <u> </u>        |          |     |          | 83       |          |          |      |          | L        | L        |          | <u> </u>     | ļ |
|                        | 34      | $\Box$     |          | <u> </u> |              | Ь.       | _        | <u> </u> |                 |          |     |          | 84       |          |          |      |          | _        |          |          | <u> </u>     | ļ |
|                        | 35      |            |          |          | <u> </u>     | L.       |          | <u> </u> |                 |          |     |          | 85       | _        | _        |      | _        |          |          | L        | L_           | ļ |
|                        | 36      | -          |          |          | <b> </b>     | Ш        | <u> </u> |          |                 |          |     |          | 86       |          | _        |      |          | _        | _        |          | Ŀ            | ļ |
|                        | 37      | _          |          |          |              |          | <u> </u> | <u> </u> |                 |          |     |          | 87       |          |          |      |          |          | _        |          |              | ļ |
|                        | 38      |            |          |          | _            |          |          | <u> </u> |                 |          |     |          | 88       |          |          |      |          | L        |          |          |              | ļ |
|                        | 39      |            |          |          | $\vdash$     |          |          | <u> </u> | <b> </b>        |          |     |          | 89       |          | _        | _    | <u> </u> | <u> </u> |          | <u> </u> |              | - |
| <u> </u>               | 40      |            |          |          | <u> </u>     |          | <u> </u> | <u> </u> | _               |          |     |          | 90       | $\dashv$ | _        |      | _        | <u> </u> |          | _        |              | 1 |
| <u> </u>               | 41      |            |          | _        | <u> </u>     |          | <u> </u> | <u> </u> |                 |          |     |          | 91       |          | _        | _    |          | <u> </u> | L        | <u> </u> | $\vdash$     | 1 |
| <u> </u>               | 42      |            |          |          | $\vdash$     |          | -        | $\vdash$ | $\vdash$        |          |     | $\dashv$ | 92       |          | _        |      |          | <u> </u> | <u> </u> | $\vdash$ | _            | 1 |
|                        | 43      |            |          |          | 1            | <u> </u> |          | <u> </u> |                 |          |     |          | 93       |          | $\dashv$ | _    |          | <u> </u> | <u> </u> | <u> </u> | <u> </u>     | 1 |
| $\vdash \dashv$        | 44      | $\dashv$   | _        |          |              |          |          | H        | $\vdash$        |          |     |          | 94       | $\dashv$ | _        |      |          | <u> </u> | _        |          | ш            | 1 |
|                        | 45      |            |          |          | $\vdash$     | $\vdash$ | <b> </b> | H        | $\vdash$        |          |     |          | 95       | $\dashv$ |          |      | <u> </u> | <b> </b> | ļ        | <u> </u> | $\vdash$     | 1 |
|                        | 46      | $\vdash$   | -        |          | <del> </del> | -        |          | <b>-</b> | Н               |          |     |          | 96       | -        | _        |      | _        | <u> </u> |          | Щ        | Ш            | ŀ |
| $\vdash$               | 47      | -          |          |          |              | -        | $\vdash$ |          | $\vdash$        | _        |     |          | 97       | -        | -        | _    |          | <u> </u> | _        | Ш        | <b> </b>     | Ļ |
| $\vdash \vdash \vdash$ | 48      |            |          | -        | $\vdash$     | ļ.,      |          |          | $\vdash \vdash$ |          |     |          | 98       | $\dashv$ |          |      | _        | <u> </u> | <u> </u> | <b> </b> | -            | Ļ |
|                        | 49      |            |          |          | <u> </u>     | Н        | $\vdash$ |          |                 |          |     |          | 99       | _        |          | _    |          |          | <u> </u> |          | $\vdash$     | H |
| Ll                     | 50      |            |          |          | <u> </u>     | L        | ш        |          | Щ               |          | ı L |          | 100      |          |          | ال   |          | L        | Щ.       | L        | ш            | L |

| Cli      | Claim    |              |          | Date     |              |              |          |          |          |          |  |  |  |  |
|----------|----------|--------------|----------|----------|--------------|--------------|----------|----------|----------|----------|--|--|--|--|
| Final    | Original |              |          |          |              |              |          |          |          |          |  |  |  |  |
|          | 51       |              | 1        |          |              |              |          | П        |          |          |  |  |  |  |
|          | 52       |              |          |          |              | 1            |          |          | -        | T        |  |  |  |  |
|          | 53       |              |          |          | Г            | Γ            | Г        |          |          |          |  |  |  |  |
|          | 54       |              |          |          | 1            |              | Γ        | Ī        |          | T.       |  |  |  |  |
|          | 55       |              |          |          |              | Π            |          |          |          | Ī        |  |  |  |  |
|          | 56       |              |          |          |              |              |          |          |          |          |  |  |  |  |
|          | 57       |              |          |          |              |              |          |          |          |          |  |  |  |  |
|          | 58       |              |          | <u> </u> | L            |              | L        |          |          | L        |  |  |  |  |
|          | 59       | <u> </u>     |          |          | <u> </u>     |              | _        |          | L.       | _        |  |  |  |  |
|          | 60       | <u> </u>     | L        | L.       | <u> </u>     |              |          |          | <u> </u> | L        |  |  |  |  |
|          | 61       | ┖            | L        | ļ        |              | <u> </u>     |          |          | L        |          |  |  |  |  |
|          | 62       | _            | L        | <u> </u> |              |              | L.       | L_       |          | L        |  |  |  |  |
|          | 63       |              | ļ        | <u> </u> | <u> </u>     |              |          | <u> </u> |          | <u> </u> |  |  |  |  |
| <u> </u> | 64       |              |          | <u> </u> | <u> </u>     | ļ            | _        | <u> </u> | L        | ļ_       |  |  |  |  |
|          | 65       |              | <u> </u> | <u> </u> |              |              |          | _        | _        | _        |  |  |  |  |
|          | 66       |              | <u> </u> | ļ        |              | ⊢            | ┡        |          |          | <u> </u> |  |  |  |  |
| $\vdash$ | 67       |              | <u> </u> |          |              | <u> </u>     | <b>!</b> |          | -        | <u> </u> |  |  |  |  |
| $\vdash$ | 68<br>69 | -            |          | ⊢        | <del> </del> | _            | <u> </u> |          |          | ⊢        |  |  |  |  |
|          | 70       | ├            |          | ⊢        | ├            | <del> </del> | ⊢        | ⊢        | <u> </u> | ⊢        |  |  |  |  |
|          | 71       | -            | _        | $\vdash$ |              | ⊢            | $\vdash$ | -        | -        |          |  |  |  |  |
| -        | 72       | <del> </del> | -        |          | ⊢            | <b>-</b>     | ┝        | -        | -        | -        |  |  |  |  |
|          | 73       |              | $\vdash$ |          | ├-           | ├            | ⊢        | ⊢        | ┢        |          |  |  |  |  |
| <u> </u> | 73<br>74 | $\vdash$     | ├        |          | -            |              |          |          | $\vdash$ |          |  |  |  |  |
| $\vdash$ | 75       | _            | $\vdash$ |          |              |              | $\vdash$ |          | $\vdash$ |          |  |  |  |  |
|          | 75<br>76 | $\vdash$     | $\vdash$ |          | ┢            | $\vdash$     | -        |          | -        |          |  |  |  |  |
|          | 77       |              |          |          |              | -            |          | 一        | -        | $\vdash$ |  |  |  |  |
|          | 78       |              | $\vdash$ |          |              |              | 1        | T        |          | 1        |  |  |  |  |
|          | 79       |              | -        | $\vdash$ |              | _            | $\vdash$ |          | _        | T        |  |  |  |  |
|          | 80       |              |          |          |              |              | 1        |          |          | _        |  |  |  |  |
|          | 81       |              |          |          |              |              |          |          |          |          |  |  |  |  |
|          | 82       |              |          |          |              |              |          |          |          |          |  |  |  |  |
|          | 83       |              |          |          |              |              |          |          |          |          |  |  |  |  |
|          | 84       |              |          | L        |              |              |          |          |          |          |  |  |  |  |
|          | 85       |              |          |          |              |              |          | L        |          |          |  |  |  |  |
|          | 86       |              |          | _        |              |              | L        |          | ٠        | L        |  |  |  |  |
| <u></u>  | 87       |              |          | _        |              | ļ            |          |          |          |          |  |  |  |  |
|          | 88       |              |          | _        |              | ļ            |          |          |          | _        |  |  |  |  |
|          | 89       | _            |          | _        | _            | <u> </u>     |          |          |          | _        |  |  |  |  |
|          | 90       |              |          | _        | <u> </u>     | <u> </u>     | _        | _        |          | _        |  |  |  |  |
| <u> </u> | 91       |              |          |          | ļ            | <u> </u>     | ļ        | _        |          | <u> </u> |  |  |  |  |
| -        | 92<br>93 | _            |          | <u> </u> | -            | ├-           | -        | H        |          | -        |  |  |  |  |
|          | 94       |              |          | <b>-</b> | -            |              | -        | -        | ļ        | $\vdash$ |  |  |  |  |
|          | 95       |              |          | <u> </u> |              | -            |          |          |          | $\vdash$ |  |  |  |  |
|          | 96       |              |          |          | $\vdash$     | -            |          | -        |          | -        |  |  |  |  |
|          | 97       | $\vdash$     |          |          |              |              |          | $\vdash$ |          |          |  |  |  |  |
|          | 98       |              | -        |          |              | -            | $\vdash$ |          |          | -        |  |  |  |  |
|          | 99       |              |          |          | _            |              |          |          | -        |          |  |  |  |  |
|          | 100      |              |          |          | $\vdash$     | -            |          | _        |          | Н        |  |  |  |  |

|  | 101<br>102<br>103 |          |              |              |          | Date         |          |          |          |           |
|--|-------------------|----------|--------------|--------------|----------|--------------|----------|----------|----------|-----------|
|  | 101<br>102<br>103 |          |              |              |          |              |          |          |          |           |
|  | 102<br>103        |          |              |              |          |              |          |          |          |           |
|  | 103               | 1        |              |              |          |              |          |          |          |           |
|  | 103               |          | <u> </u>     | <u> </u>     |          |              |          |          |          |           |
|  |                   |          | <u> </u>     | <u> </u>     | ļ        |              |          | ļ        |          | <u>_</u>  |
| '  | 104               | -        | <u> </u>     | $\vdash$     | _        |              | -        | <u> </u> | ļ        | _         |
| $\vdash$   | 105<br>106        |          |              | $\vdash$     | $\vdash$ |              | _        | <u> </u> |          |           |
| 1 1 4  | 107               |          | ⊢            | $\vdash$     |          |              | -        | ļ        |          | -         |
| <u> </u>   | 108               |          | -            |              |          |              | ├        | _        | -        |           |
| <del>  -</del>                                   | 109               |          | <del> </del> |              | -        | <del> </del> | $\vdash$ |          | _        | $\vdash$  |
| ·  | 110               |          | <u> </u>     |              | Г        | 1            |          |          |          |           |
| - ·  | 111               |          |              |              |          |              |          |          |          |           |
|  | 112               |          |              |              |          |              |          |          |          |           |
| <u></u>  | 113               |          | <u>L</u> .   | <u> </u>     | <u> </u> |              |          | _        | <u> </u> |           |
|  | 114               | <u> </u> | <del> </del> |              | <u> </u> |              | _        | $\vdash$ | <u> </u> | Щ         |
| <del>     </del>                                 | 115<br>116        |          | <u> </u>     | -            |          | -            |          | _        | -        | $\vdash$  |
| <del>     </del>                                 | 117               |          | H            |              | $\vdash$ | $\vdash$     | $\vdash$ | <u> </u> | _        | $\vdash$  |
|  | 118               |          |              | $\vdash$     | -        | -            | -        | _        | $\vdash$ | -         |
| <del>    -</del>                                 | 119               |          | $\vdash$     | -            |          | -            |          | _        |          | Н         |
| ļ .  | 120               |          |              | -            |          |              |          |          | -        |           |
| 1 1.   | 121               |          |              |              | -        |              |          |          |          | П         |
|  | 122               |          |              |              |          |              |          |          |          |           |
|  | 123<br>124        |          |              |              |          |              |          |          |          |           |
|  | 124               |          |              |              |          |              |          |          |          |           |
|  | 125               |          |              |              | <u> </u> | L            |          |          |          |           |
|  | 126<br>127        |          |              |              | _        |              |          |          |          | Щ         |
| <del>                                     </del> | 128               |          |              | -            |          |              |          |          |          | -         |
|  | 129               |          |              |              |          | Н            |          |          |          |           |
| 1  | 130               | _        |              |              | _        | Н            |          |          |          |           |
|  | 131               |          |              | <del> </del> |          |              |          |          |          |           |
| 1  | 132               |          |              |              |          |              |          |          |          |           |
| 1  | 133               |          |              |              |          |              |          |          |          |           |
| 1  | 134               |          |              |              |          |              |          |          |          |           |
|  | 135               |          |              |              | L        |              |          |          |          | $\square$ |
|  | 136               |          |              |              |          | Щ            |          |          |          | $\sqcup$  |
| <del>                                     </del> | 137<br>138        |          |              |              | _        | $\vdash$     | _        |          |          | $\dashv$  |
|  | 139               |          |              |              |          | $\vdash$     |          |          |          | $\dashv$  |
|  | 140               |          |              | $\vdash$     |          | $\vdash$     | $\dashv$ |          |          | $\dashv$  |
|  | 141               | -        |              | -            | _        | Н            | _        |          | _        | $\vdash$  |
|  | 142               |          |              |              | _        |              |          |          |          |           |
| 1  | 143               |          |              |              |          |              |          |          |          |           |
|  | 144               |          |              |              |          |              |          |          |          |           |
|  | 145               |          |              |              |          |              |          |          |          |           |
|  | 146               | _        |              |              |          | Щ            |          |          |          |           |
|  | 147               | _        |              |              |          | <u> </u>     | _        |          |          |           |
|  | 148<br>149        |          | $\dashv$     | -            |          |              | $\dashv$ |          |          | $\dashv$  |
|  | 150               | -        | -            |              | _        | $\vdash$     |          | $\dashv$ |          |           |
| L  | JU                |          |              |              |          |              |          |          |          |           |